

im Vertrieb von

HDTV

CAMBOARD Electronics

Switchers

Distribution Amplifiers

Signal Enhancement

Signal Conversion

Interfaces

Cables & Adapters

Home AV Distribution

HDTV Cables



Extron

1999-2000
HDTV VIDEO
INTEGRATION
ACCESSORIES
CATALOG



www.camboard.de

Tel. 07131 911201

Fax 07131 911203

ce-info@camboard.de



Our Commitment to Your HDTV Needs

Extron Electronics was founded in 1983 and started by manufacturing computer interfaces which allow computer video to be displayed on CRT video projectors. At that time, video projectors on the market could only display standard video signals (such as television signals); they were unable to display computer graphics. With the personal computer market just beginning to take off, Extron's founders foresaw what a valuable training tool projected computer images would be when incorporated into a presentation. From a garage in Southern California, this concept developed into the RGB 100, the industry's first computer-video interface. Since then, Extron Electronics has grown into the premier manufacturer in the audio/visual industry for interfacing, switching, distribution, and signal conversion products.

While much has occurred and much has changed since 1983, Extron's goal continues to be the same: to provide Service, Support, and Solutions to the professional A/V industry. These three words are found on Extron's S3 logo and illustrate our commitment to not only meeting but exceeding our customer's expectations. They are the guiding principles for everything we do and the foundation on which Extron's corporate philosophy is based. This is why we provide a 24 hour technical support hotline, high quality products, fast delivery, training, and just about every component and accessory needed for the processing, interconnection, distribution and routing of video and audio signals.

Extron products have found their way into every conceivable presentation environment: home theaters, boardrooms, presentation/training centers, university lecture halls and numerous others. Our product line has grown to provide the solutions necessary for each of these environments. We manufacture not only computer-video interfaces, but also switchers, distribution amplifiers, computer-video scan converters, line doublers and quadruplers, scalars and high resolution cable. These product lines continually grow and reflect the latest in technology and all offer solutions for use in the integration of HDTV. It is these solutions – Extron's HDTV capable product line – which will now be introduced.

Extron is your source for Home Theater interfacing switching, distribution and cable needs. Within this brochure is found a portion of Extron's HDTV ready product line, which meets almost any Home Theater connectivity need. Whether it's one room or a multiple room installation, Extron's products will maintain the highest image quality with high bandwidth amplifiers, switchers and cable. Many of Extron's amplifiers and switchers will handle any signal from composite video to RGB – in addition to HDTV and component video formats – providing versatile routing solutions. Other products allow signals to be converted to other standards simplifying routing and display set up. Whatever is needed in the way of Home Theater HDTV accessories, Extron has the right solution for the job.

Extron Brings HDTV Home

Extron Electronics offers a wide array of HDTV accessory equipment to assist home theater users in integrating HDTV signals and/or displays into new HDTV home theater environments for brilliant images with enhanced depth. Extron's switching, distribution, and signal enhancement products route, distribute, or convert HDTV and NTSC/PAL/SECAM video signals for integration into HDTV home theaters.



DVS 100 NTSC/PAL/SECAM DIGITAL VIDEO SCALER

Using advanced scaling technologies, Extron's DVS 100 Digital Video Scaler scales NTSC/PAL/SECAM video signals into stunning high-resolution video for integration with HDTV and other high-resolution displays used in home theater environments.

- Converts standard video to HDTV video
- Composite video, S-video and component video inputs
- HDTV output rates: 480p, 720p, and 1080p; plasma, and computer-video output rates also available

The DVS 100 lists for \$2325.00 (US Dollars)

For complete details, visit Extron's website at <http://www.extron.com/product/product.asp?id=dvs100>



SW 6 COMPONENT HDTV SWITCHER

Extron's SW 6 Component Switcher is a six input, one output, HDTV/component video switcher designed for convenient, centralized control of inputs to an HDTV or other high-resolution display devices.

- HDTV and component video inputs and outputs
- Auto-switching mode to automatically switch to the active input
- Auto-sequencing mode to automatically sequence through the inputs
- Remote control available through RS-232 and contact closure

The SW 6 Component lists for \$895.00 (US Dollars)

For complete details, visit Extron's website at <http://www.extron.com/product/product.asp?id=sw6cs>



CVC 200 HDTV TO RGBS OR RGBHV CONVERTER

Extron's CVC 200 converts high-resolution HDTV or component video to RGB video for sharp images on RGB monitors and projectors, such as plasma displays, LCDs, or DLPs in home theaters.

- HDTV rates: 720p, 1080i, and SMPTE 240
- Betacam, SMPTE component video, W-VHS (Y, Pr, Pb) and DVD component video to RGBS or RGBHV

The CVC 200 lists for \$895.00 (US Dollars)

For complete details, visit Extron's website at <http://www.extron.com/product/product.asp?id=cvc200>



SIX CONDUCTOR HIGH RESOLUTION CABLE

Extron's Six Conductor High Resolution Cable is ideal for carrying HDTV and other signals on long cable runs with minimal signal loss. Six coaxial conductors carry HDTV video signals as well as additional signals, such as sync, S-video or composite video.

- Attenuation of -3dB/100 feet @ 100 MHz for maintaining video bandwidth needed for exceptional image quality
- Flexible jacket material and built-in ripcord for convenient installation

A 500' spool of Six Conductor High Resolution Cable lists for \$1650.00 (US Dollars)

For complete details, visit Extron's website at <http://www.extron.com/product/product.asp?id=cables>



- Six input, one output
- HDTV compatible
- Auto-switching (automatically switches to active input)
- Sequencing (automatically scans through inputs)
- Controllable through RS-232 or contact closure

SW 6 Component

Component/HDTV Switcher

Description

The **SW 6 Component** switcher is a six input, one output switcher that switches component video (including HDTV component video), RGB, S-video and composite video signals. This switcher is bi-directional, with 180 MHz (-3dB) video bandwidth, allowing almost any signal to be routed as needed. The SW 6 Component can be set to sequence through the inputs, or to automatically switch to the active input.

Part Numbers and Prices

SW 6 Component	60-309-01	\$895.00
Optional Rack Shelf (19", 2U)	60-030-01	\$125.00

<http://www.extron.com/product/product.asp?id=sw6cs>



- Six inputs that accept S-video, four inputs that accept composite video
- Encodes S-video into composite video
- Decodes composite video into S-video
- Three-line adaptive comb filter – which virtually eliminates chroma noise
- Two independently buffered outputs (S-video and composite video)
- RS-232 controllable

YCS SW6 MX

Six Input Switcher, Y/C Separator and Combiner

Description

The **YCS SW6 MX** is a six input, one output switcher that encodes S-video to composite video or decode composite video to S-video, as needed. With the YCS SW6 MX all S-video and composite video sources can be converted to whatever format is desired, for ease in routing, and to maintain the best signal quality. Output is available simultaneously on both the S-video output and the composite output, allowing simplification of signal routing.

Part Numbers and Prices

YCS SW6 MX	60-224-01	\$995.00
Optional Rack Shelf (19", 1U)	60-190-01	\$125.00

<http://www.extron.com/product/product.asp?id=ycssw6mx>



- Compatible with RGB, HDTV, component video, S-video, and composite video signals
- Built-in sequencing and auto-switching
- 600 MHz (-3dB) bandwidth that handles virtually any signal
- Remote control easily done through RS-232/contact closure

SW 6 AR MX HV

Six Input RGBHV Switcher

Description

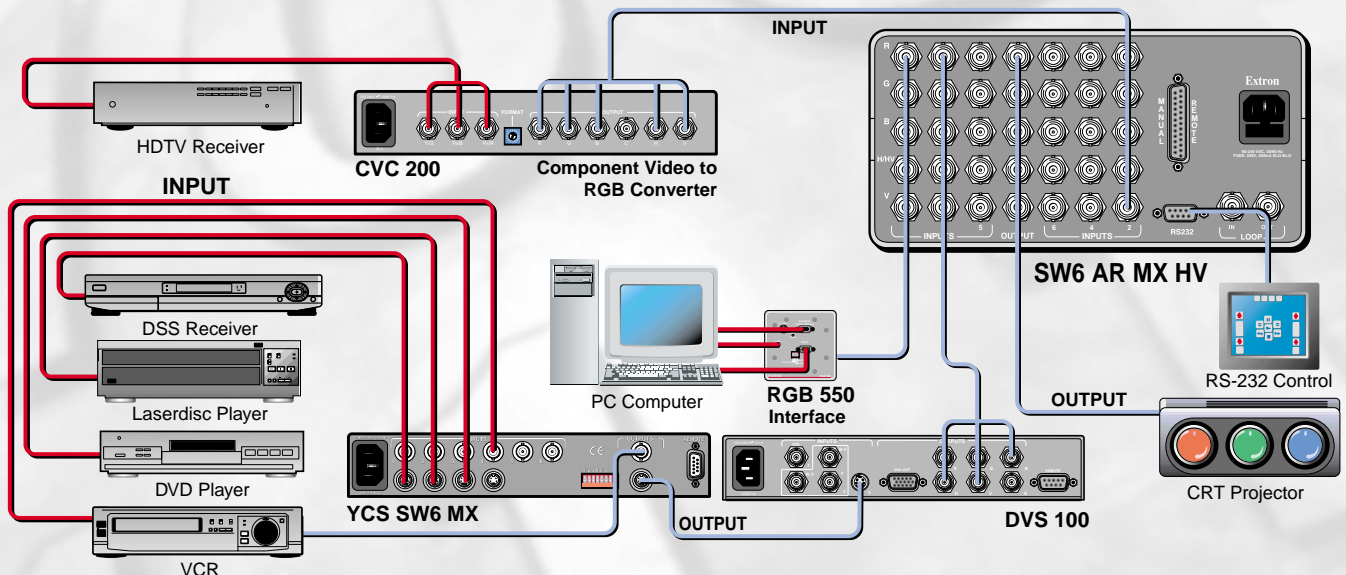
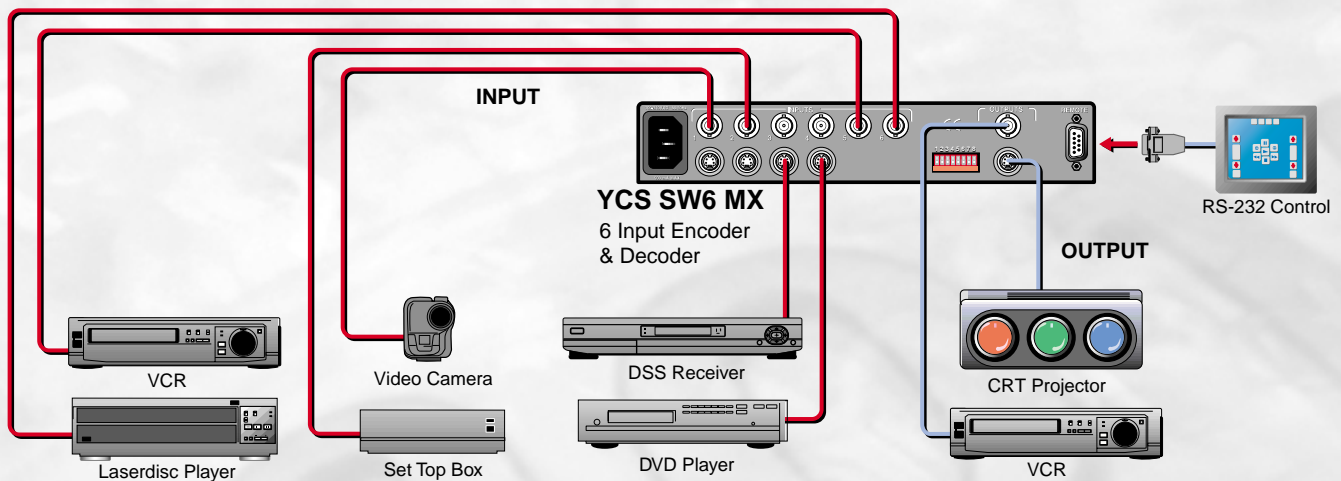
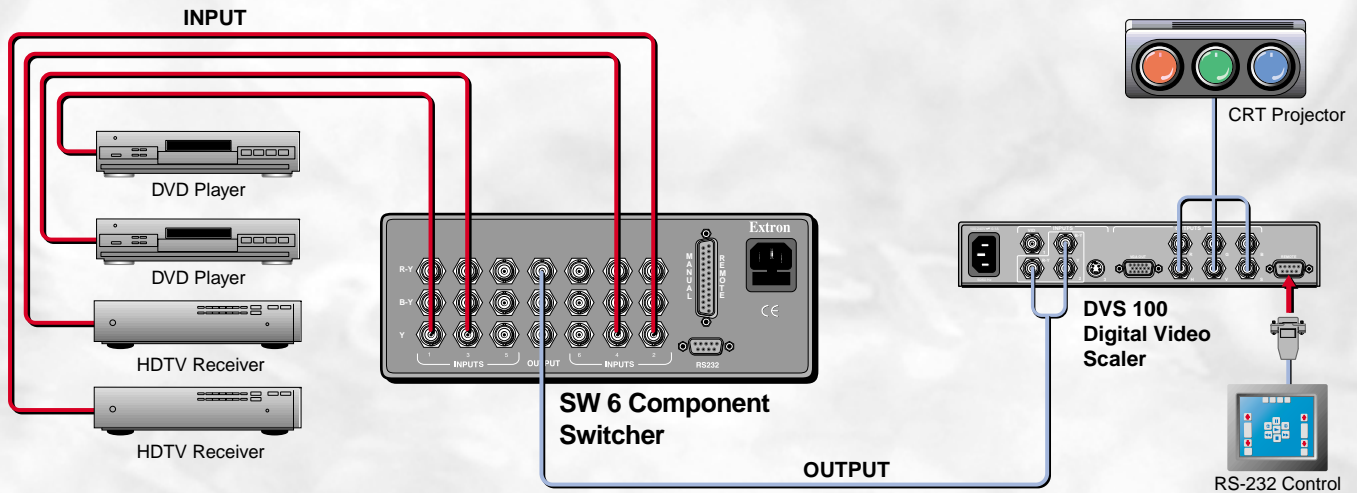
The **SW 6 AR MX HV** is a six input, one output switcher that handles almost any signal. This switcher will accept RGB, RGBS, RGBHV, component video (including HDTV component video), S-video and composite video signals. The SW 6 AR MX HV can be set to sequence through the inputs, or to automatically switch to the active input.

Part Numbers and Prices

SW 6 AR MX HV	60-110-03	\$1595.00
Optional Rack Shelf (19", 2U)	60-032-01	\$125.00

<http://www.extron.com/product/product.asp?id=sw6armxhv>

APPLICATION DIAGRAMS



DISTRIBUTION AMPLIFIERS

- One input, six output
- Each output is individually buffered and amplified
- Inputs and outputs on female DIN (mini) connectors
- Internal power supply

SVDA 6 MX**S-video Distribution Amplifier****Description**

The **SVDA 6 MX** accepts one S-video signal and converts it into six individually buffered output signals. This unit allows a single S-video source to be distributed to up to six VCRs/projectors/monitors/big screen displays while maintaining the original signal quality.

Part Numbers and Prices

SVDA 6 MX.....	60-204-01	\$350.00
Optional Rack Shelf (19", 1U)	60-190-01	\$125.00

<http://www.extron.com/product/product.asp?id=svda6mx>



- One input, six output
- HDTV compatible
- Compatible with HDTV, RGsB, component video, S-video, and composite video
- High video bandwidth design maintains signal quality
- AC/DC coupling

ADA 6 Component**Component/HDTV Distribution Amplifier****Description**

The **ADA 6 Component** is a one input, six output distribution amplifier that accepts HDTV, RGsB, component video, S-video, and composite video. A single video source can be distributed to multiple sources (VCRs, projectors, or HDTV displays) without degrading the video signal.

Part Numbers and Prices

ADA 6 Component	60-310-01	\$695.00
Optional Rack Shelf (19", 3U)	60-030-01	\$125.00

<http://www.extron.com/product/product.asp?id=ada6c>



- One input, two output
- Compatible with HDTV, RGBHV, RGsB, component video, S-video, and composite video
- Ground loop isolator
- RGB gain adjustments
- High video bandwidth maintains top signal quality

ADA 2/GLI 350 HV**Amplifier with Ground Loop Isolator****Description**

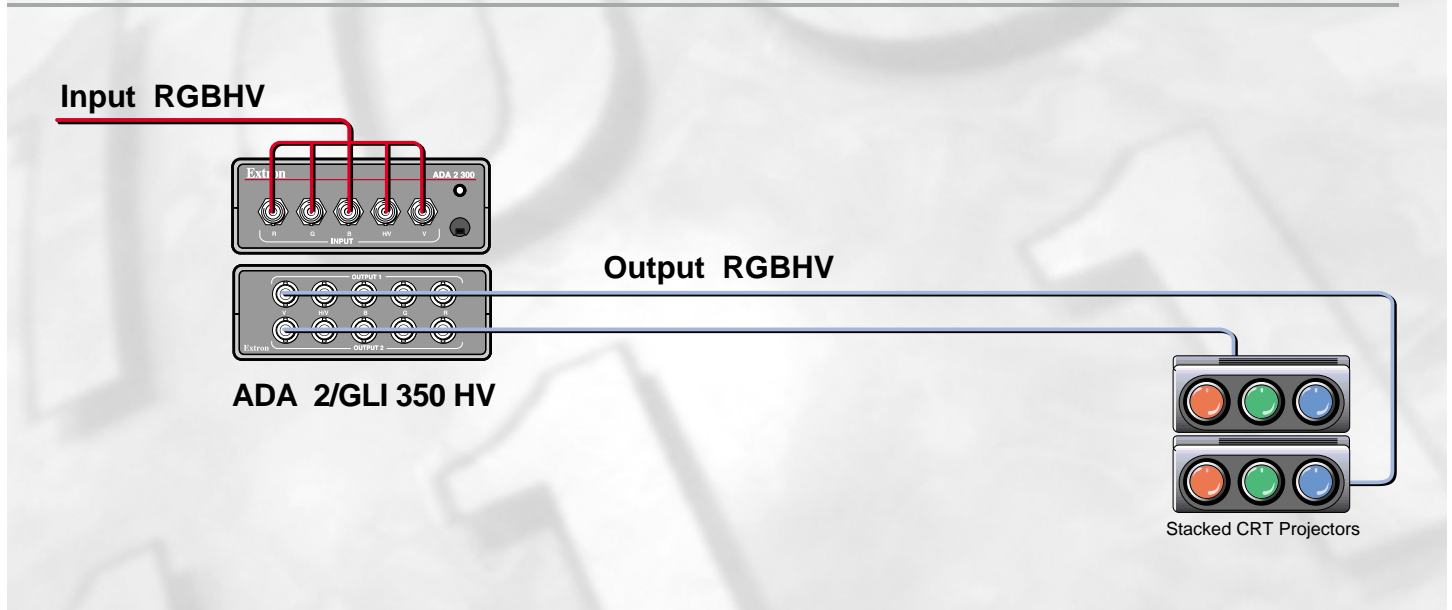
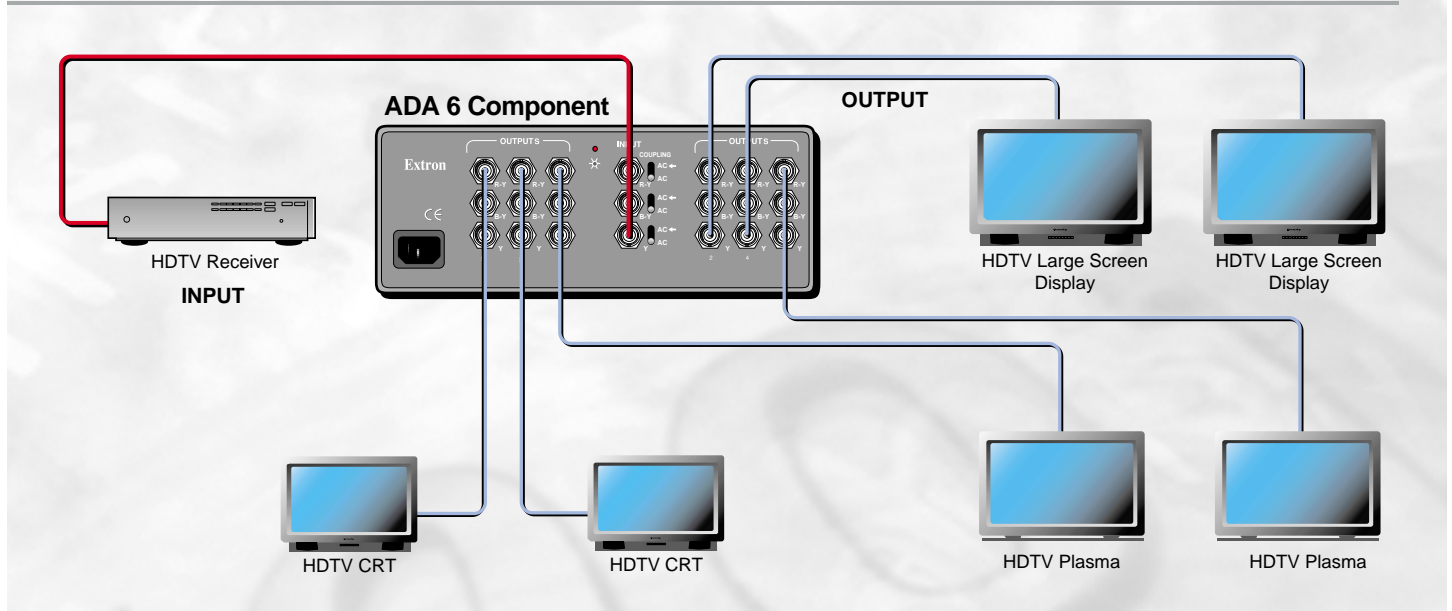
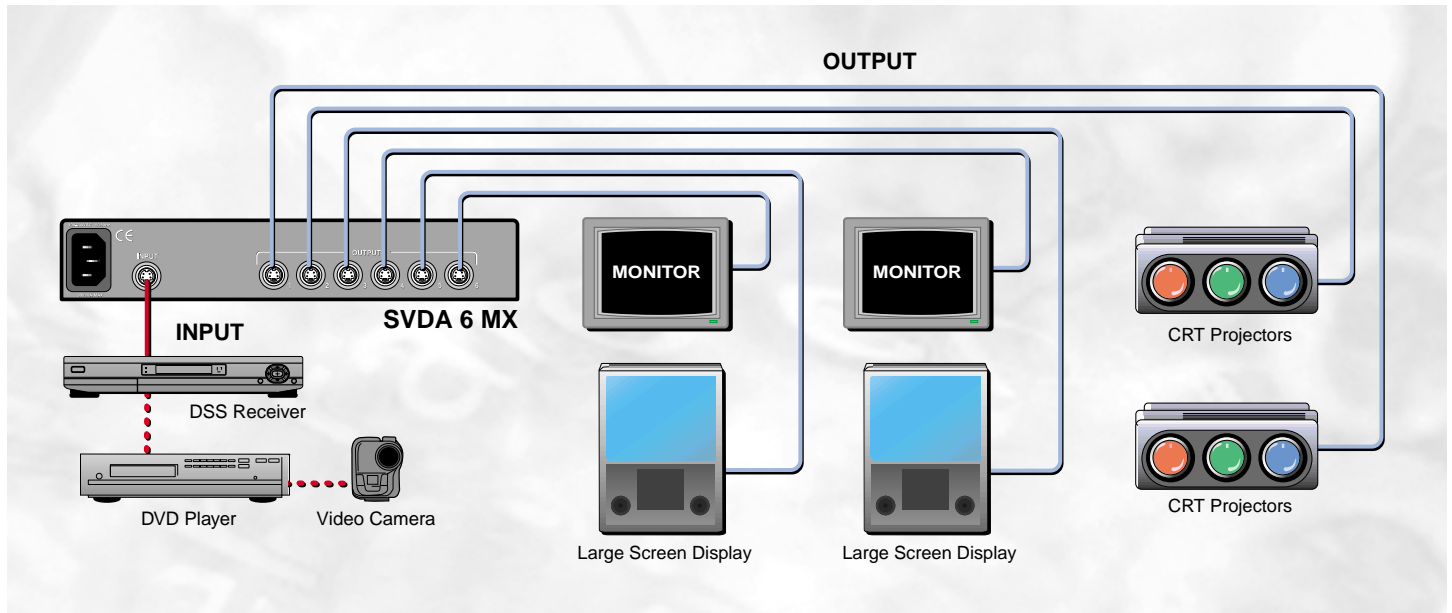
The **ADA 2/GLI 350 HV** is a one input, two output distribution amplifier that also provides ground loop isolation. The ground loop isolator feature prevents hum bars and other interference that results from ground loop problems. Ground loop problems can be difficult to troubleshoot, and may require rewiring of power/ground circuits to solve. The **ADA 2/GLI 350 HV** can save considerable time and expense, by making such rewiring unnecessary.

Part Number and Price

ADA 2/GLI 350 HV	60-230-02	\$1270.00
------------------------	-----------------	-----------

<http://www.extron.com/product/product.asp?id=ada2-gli350hv>

APPLICATION DIAGRAMS





- Converts component video to RGB format
- Compatible with HDTV (780p, 1080i and W-VHS)
- Converts Betacam (Y, R-Y, B-Y) to RGBS or RGBHV

CVC 200**Component Video Converter****Description**

The CVC 200 accepts HDTV/component video and converts it into an RGBS or RGBHV signal for projectors and big screen displays which have RGB inputs. The common HDTV formats can be converted and this unit will automatically select between the various HDTV rates.

Part Numbers and Prices

CVC 200	60-284-01	\$895.00
Optional rack shelf	60-190-01	\$125.00

<http://www.extron.com/product/product.asp?id=cvc200>



- Up scales standard broadcast video producing brighter, high quality images
- Output resolutions include 480p, 720p, 1080p (HDTV) and common computer resolutions
- Features a three-line adaptive comb filter which virtually eliminates chroma noise
- Outputs RGsB, RGBS, and RGBHV on BNCs and a 15-pin HD connector simultaneously
- RS-232 controllable

DVS 100**Digital Video Scaler****Description**

The DVS 100 is a digital video scaler that up scales standard television video to HDTV or other high resolution rates, creating a brighter and higher resolution image – taking the best advantage of the abilities of big screen displays and projectors. The user can select from a number of common computer or HDTV output resolutions. Output is available on BNCs and on a VGA connector at the same time.

Part Numbers and Prices

DVS 100	60-304-01	\$2325.00
Optional rack shelf	60-190-01	\$125.00

<http://www.extron.com/product/product.asp?id=dvs100>



- Allows a computer's video output to be matched to a display device, for a brighter and clearer image
- Scales computer video up or down to other computer resolutions or HDTV
- Accepts computer resolutions up to 1600 x 1280
- Output 640 x 480, 800 x 600, 832 x 624, 852 x 480, 720p (HDTV), 1024 x 768

VSC 300 & VSC 300D**Video Scan Converter****Description**

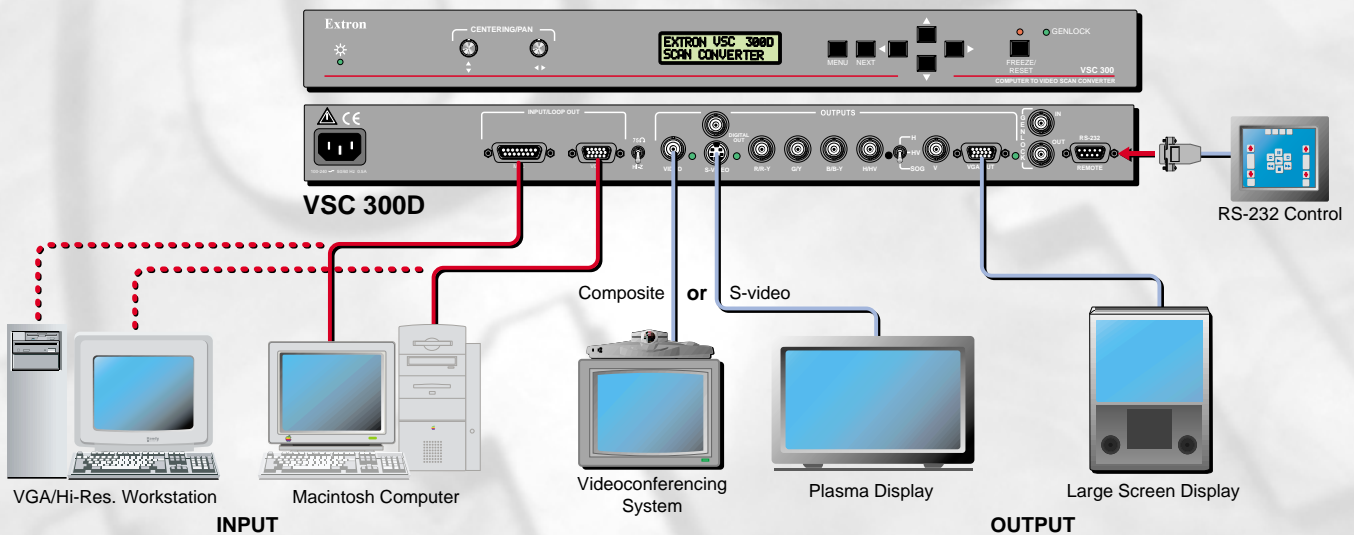
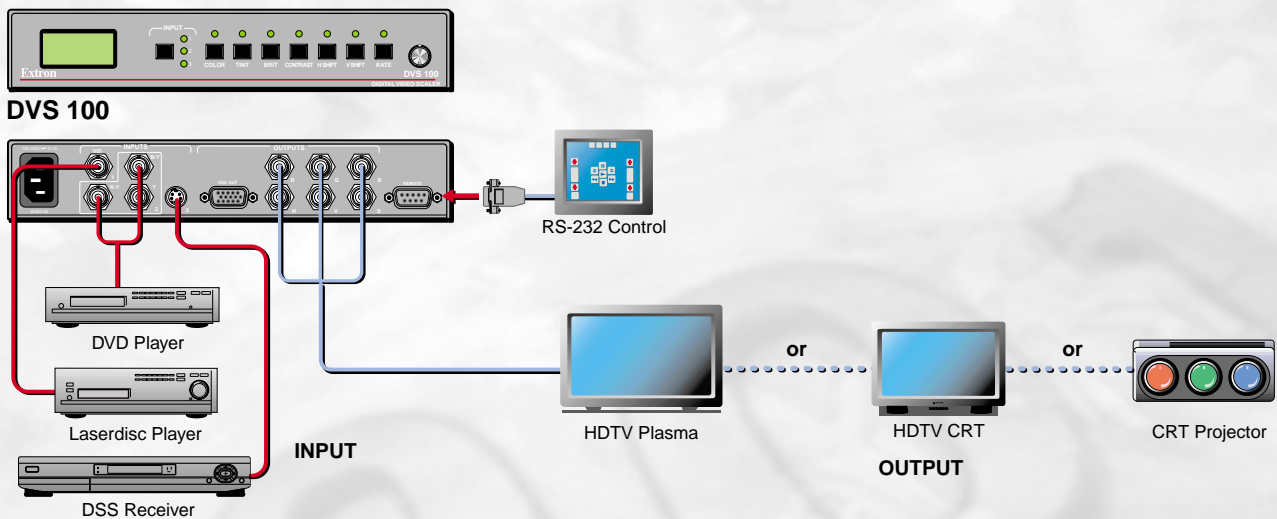
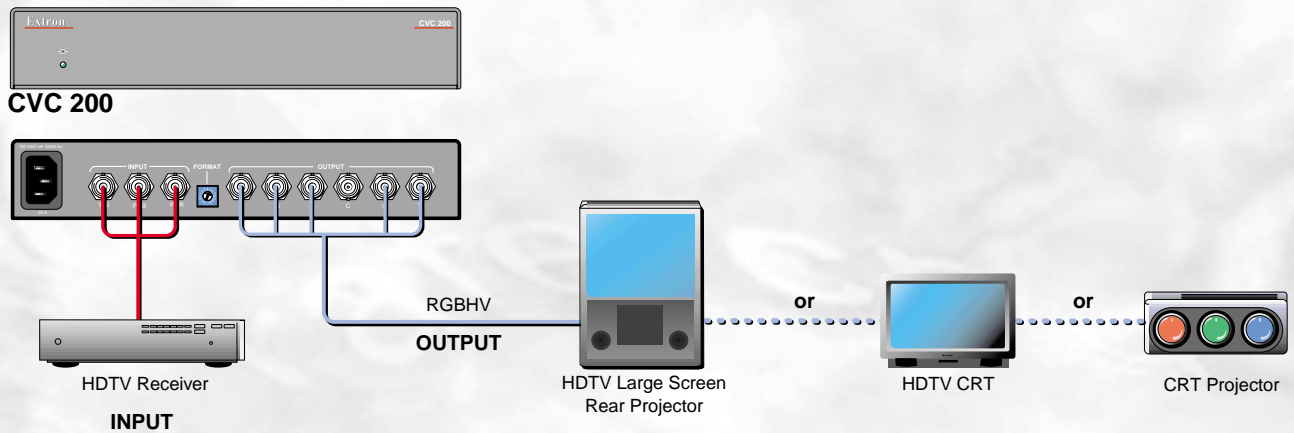
The VSC 300 is a scan converter that takes a video signal from a computer and upscales or downscales it to any of a number of common computer resolutions, HDTV (720p), or NTSC/PAL. A computer signal can be converted to a variety of resolutions to take the best advantage of a display device's capabilities. Computer signals can be scaled up or down as needed. The VSC 300D version will output D-1 digital video (4:2:2).

Part Numbers and Prices

VSC 300.....	60-275-02	\$5495.00
VSC 300D	60-275-01	\$6495.00

<http://www.extron.com/product/product.asp?id=vsc300>

APPLICATION DIAGRAMS





- Six band equalizer covering 0 to 6 MHz
- Accepts analog and digital video
- Accepts component video, digital video, S-video, composite video
- Simultaneous output of component video, S-video, and composite video
- Three-line adaptive comb filter
- 4:2:2 digital input and output
- RS-232 controllable & IR 50 Remote

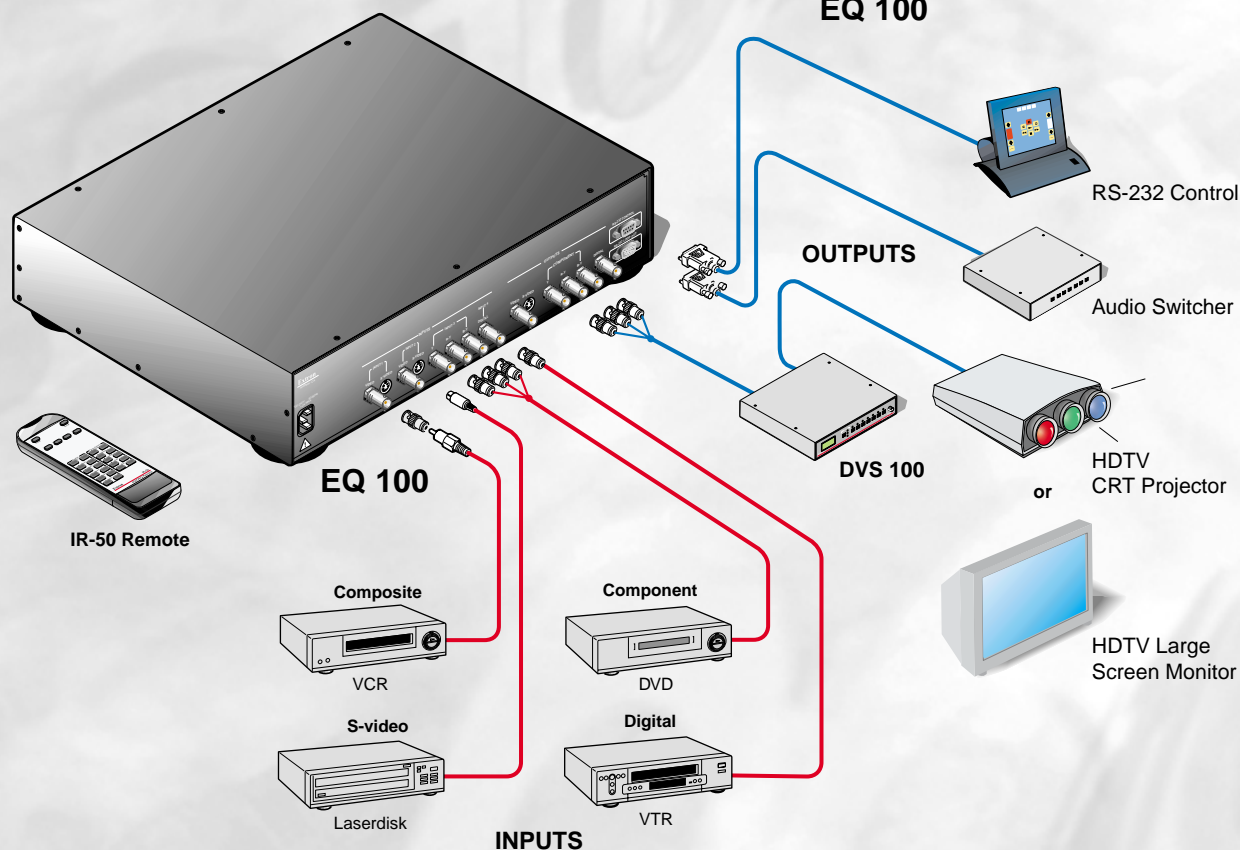
EQ 100**Video Equalizer****Description**

The EQ 100 is the industry's first six band video equalizer and provides complete control over video sharpness. Working much like an audio equalizer, the EQ 100 allows the user to fine tune the video image, reducing noise prone frequencies and increasing the amplitude of higher frequencies to recover fine details. An image, or specific features in an image, can be softened or sharpened according to the viewers' tastes. Poor image quality can be considerably improved. The EQ 100 provides six bands of equalization with a graphical display for easy adjustment.

Part Number and Price

EQ 100..... 60-277-01 \$4995.00

<http://www.extron.com/product/product.asp?id=eq100>



INTERFACES AND CABLES**RGB 500****RGB 550**

- Allows computer video to be displayed on external displays
- Wall mounting kits included
- ADSP™ – Advanced Digital Sync Processing ensures LCD/DLP/Plasma compatibility
- RGBHV, RGBS, and RGsB output formats
- Horizontal shift adjust

RGB 500/550**Wall Mountable Architectural Interfaces with Audio****Description**

The **RGB 500** and **RGB 550** computer-video interfaces convert video from a computer into RGB formats, allowing it to be displayed on external RGB displays—such as a projector or large screen monitor. These high bandwidth units buffer video signals, maintaining high quality images on both the computer and external display. Audio is also buffered, allowing it to be amplified by a room's sound system. Both interfaces are mountable in a wall, desk or almost any other flat surface.

Part Numbers and Prices

RGB 500	60-286-01	\$695.00
RGB 550	60-288-01	\$720.00

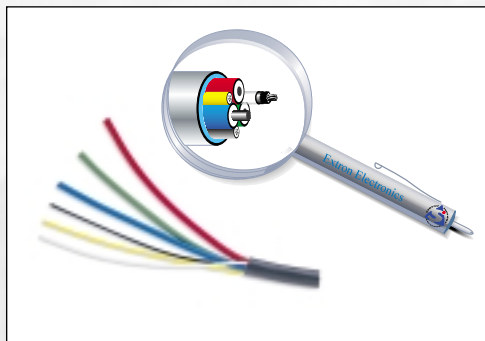
<http://www.extron.com/product/product.asp?id=rgb500>

**SHR Cable****High Resolution, Low Loss Cable****Description**

Extron's flexible Super High Resolution cable is a high resolution (high video bandwidth), low loss cable. This cable is available with one, four or five conductors.

Part Numbers and Prices (Additional lengths available)

SHR 1-6'	26-383-12	\$86.00	SHR 5-6'	26-369-02	\$136.00
SHR 1-25'	26-383-04	\$126.00	SHR 5-12'	26-369-03	\$173.00

**Six Conductor HR Cable****Six-Conductor High Resolution Cable****Description**

This low loss cable helps maintain the best image quality over long cable runs. Six conductors allow this cable to carry all signals common to A/V installations.

Part Number and Price

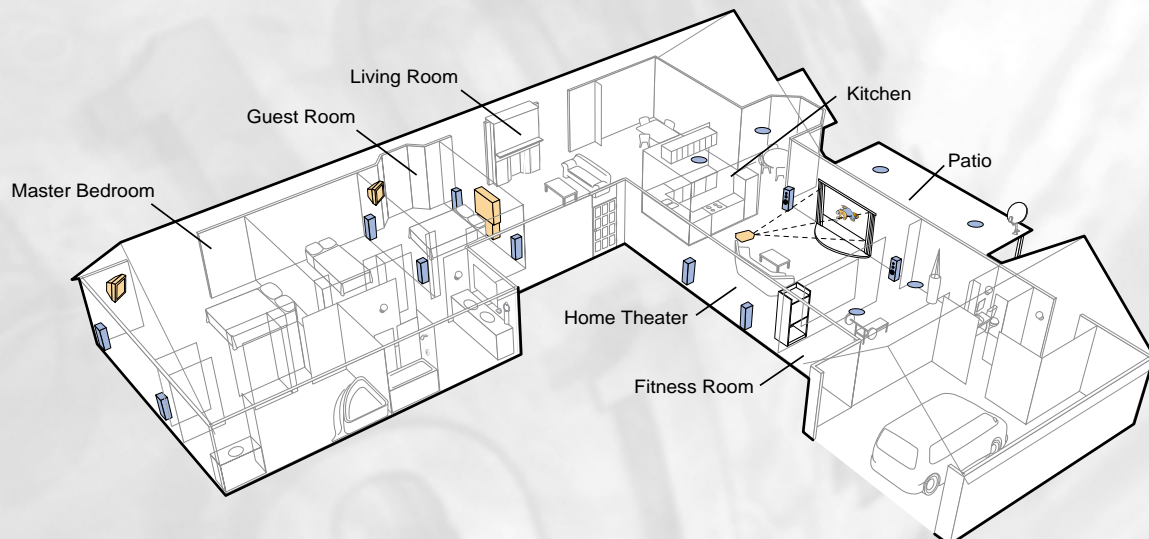
Bulk-500'	22-124-02	\$1650.00
-----------------	-----------------	-----------

**S-video Cable****Two Conductor S-video Cable****Description**

High quality, low loss coaxial S-video cables feature standard S-video connectors.

Part Numbers and Prices

SVHS 6'	26-316-02	\$25.00	SVHS 20'	26-316-01	\$40.00
SVHS 12'	26-316-03	\$35.00	SVHS 30'	26-316-04	\$45.00



- Provides one point control for routing all video signals throughout a home theater
- Routes audio and composite video sources
- Available in 8 x 4 and 12 x 8 sizes
- Adjustable audio gain and attenuation per input
- 12 presets, allowing up to 12 input-output configurations to be recalled quickly
- Features vertical interval switching, allowing smooth switching between genlocked sources
- RS-232 control, PC setup program included

MAV 128 RCA

Audio Video Matrix Switcher

Description

The MAV 84 RCA and MAV 128 RCA are matrix switchers that allow all routing of video signals in a home or building to be controlled from one central location. The output of several audio/composite video sources can be routed to a number of destinations, such as big screen displays, projectors or recording devices, in any configuration desired. Any source can be routed to one or more destinations. Signal routing can be easily changed from the front panel or through RS-232 control. Standard RCA audio connectors allow easy connection of audio equipment.

Part Numbers and Prices

MAV 84 RCA.....	60-238-02	\$1995.00
MAV 128 RCA.....	60-238-01	\$3070.00

<http://www.extron.com/product/product.asp?id=mav84-128rca>



- Provides one point control for routing video signals throughout a home theater
- Routes audio HDTV, component video, S-video, and/or composite video signals
- Available in 8 x 4, 8 x 8, 12 x 4, and 12 x 8 sizes
- Features vertical interval switching, allowing smooth switching between genlocked sources
- RS-232 control, PC setup program included

Matrix 50

Audio Video Matrix Switcher

Description

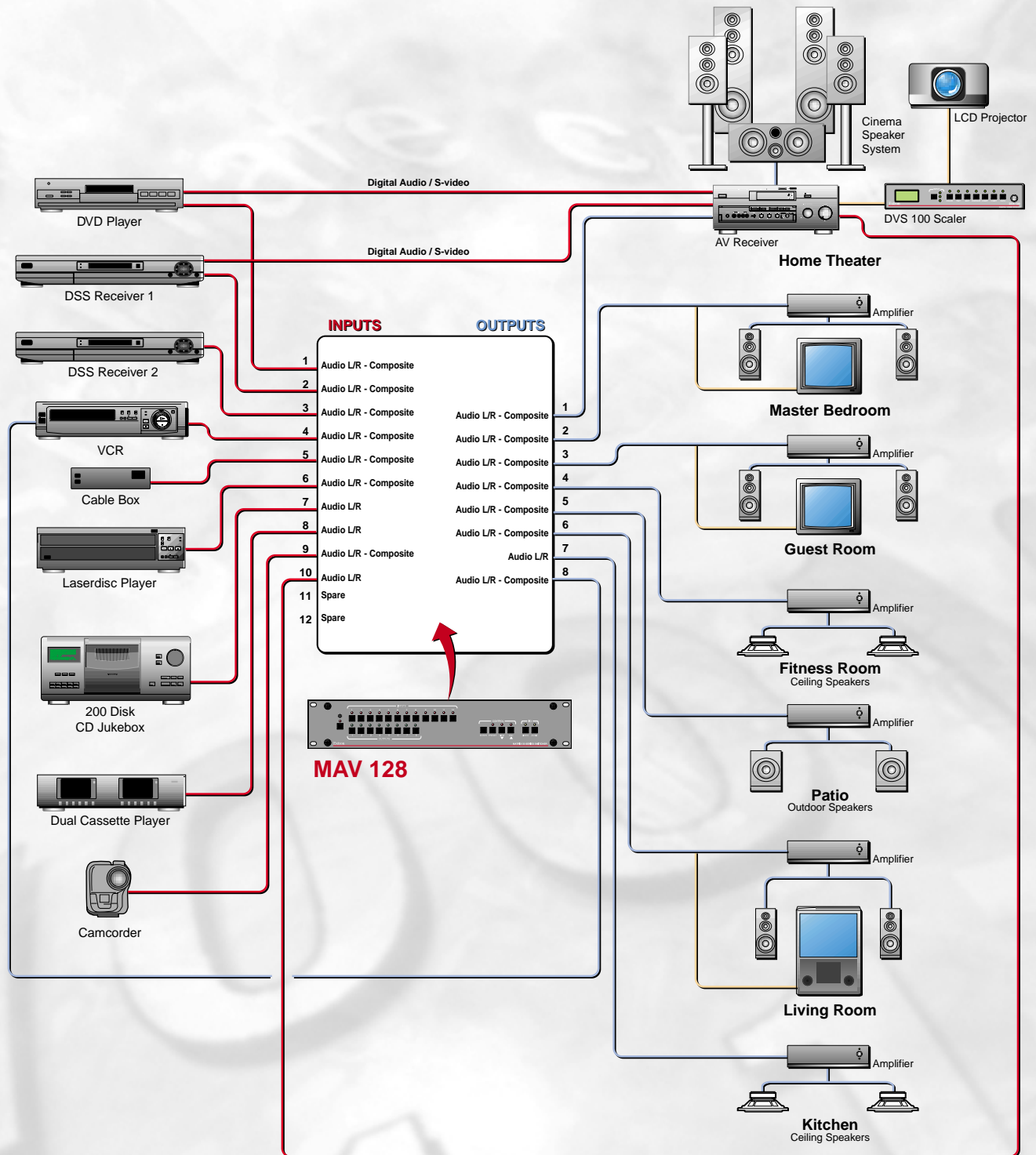
The **Matrix 50** switcher series is a versatile group of matrixes that allow all routing of video signals in a home to be controlled from one point. Signal routing is easily controlled from the front panel or through RS-232 systems, and any input can be routed to any output. The Matrix 50 switchers is available in audio only, video only (component/HDTV video, S-video, composite video), and video with audio configurations.

Part Number and Price

Matrix 50	60-194MZ	\$3840.00
-----------------	----------------	-----------

<http://www.extron.com/product/product.asp?id=matrix50>

APPLICATION DIAGRAM





VGA Cable with Audio (male to female)

High quality VGA cable

Description

Extron's high quality, high video bandwidth VGA – audio cable allows routing computer video output (VGA, SVGA, XGA, SXGA, VESA) while maintaining signal quality. Male to male versions are also available.

Part Numbers and Prices

VGA 3' HRA	26-491-01	\$90.00	VGA 25' HRA	26-491-04	\$140.00
VGA 6' HRA	26-491-02	\$100.00	VGA 50' HRA	26-491-05	\$170.00
VGA 12' HRA	26-491-03	\$120.00			



S-video Adapter

S-video to BNC Adapter Female Shown

Description

Extron's S-video to BNC adapter converts 4-pin DIN to two BNCs. Available in either male or female BNCs.

Part Numbers and Prices

SVHSM-BNCF.....	26-353-01	\$35.00	SVHSM-BNCM 3'..	26-353-03	\$40.00
SVHSM-BNCM 1'..	26-353-02	\$35.00	SVHSM-BNCM 6'..	26-353-04	\$45.00



SY VGA/XGA Adapter

15-pin HD to Five BNC Adapter

Description

The SY VGA/XGA adapter converts from 15-pin HD to five male BNCs. Conversion from female 15-pin HD is available with the SY VGA/XGAF adapter. Also available in 12 lengths.

Part Numbers and Prices

SY VGA/XGA.....	26-173-01	\$65.00
SY VGA/XGAF	26-173-02	\$65.00

**INDEX BY
DESCRIPTION**

ADA 6 Component	4
ADA 2/GLI 350 HV	4
CVC 200	6
DVS 100	6
EQ 100	8
Matrix 50.....	10
MAV 128 RCA	10
MAV 84 RCA	10
RGB 500	9
RGB 550	9
SHR Cable	9
Six Conductor HR Cable ..	9
SVDA 6 MX	4
S-video Adapter	12
S-video Cable	9
SW 6 AR MX HV	2
SW 6 Component	2
SY VGA/XGA	12
VGA Cable w/ audio	12
VSC 300	6
VSC 300D.....	6
YCS SW6 MX	2

im Vertrieb von

CAMBOARD Electronics



EXTRON ELECTRONICS/RGB SYSTEMS, INC.
1230 South Lewis Street, Anaheim, CA 92805
800.633.9876 714.491.1500 FAX 714.491.1517
U.S.A.

EXTRON ELECTRONICS, EUROPE
Beeldschermweg 6C, 3821 AH Amersfoort
+31.33.453.4040 FAX +31.33.453.4050
The Netherlands

EXTRON ELECTRONICS, ASIA
41B Kreta Ayer Road, Singapore 089003
+65.226.0015 FAX +65.226.0019
Singapore

EXTRON ELECTRONIC INFORMATION
EXTRONWEB™: www.extron.com
EXTRONFAX™: 714.491.0192
24-hour access—worldwide!

www.camboard.de

Tel. 07131 911201

Fax 07131 911203

ce-info@camboard.de

99-10
68-464-02
Rev. B